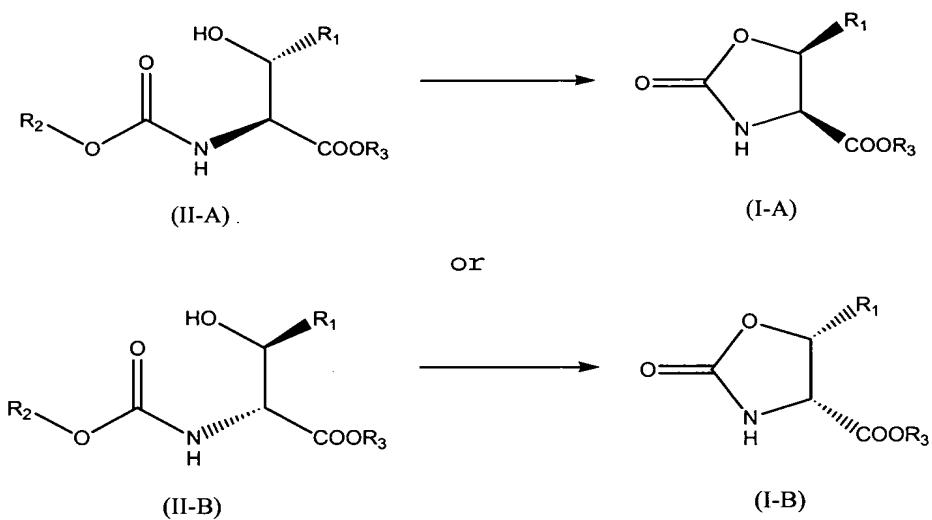


CLAIMS

1. A method for production of a compound represented by the general formula (I-A) or the general formula (I-B), comprising the step of treating a compound represented by the general formula (II-A) or the general formula (II-B) with thionyl chloride as follows:

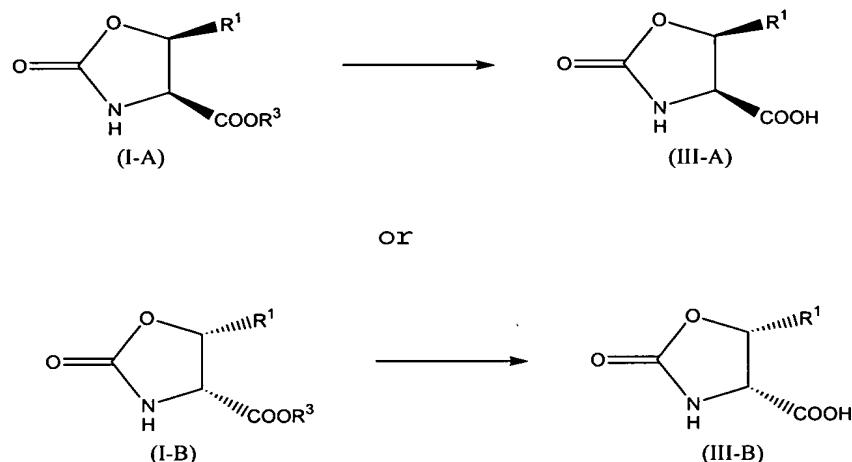


wherein R¹ is an optionally substituted lower alkyl, an optionally substituted aryl, an alkynyl, or an optionally substituted heteroaryl; R² is a lower alkyl, an optionally substituted aralkyl, or an optionally substituted heteroarylalkyl; and R³ is a lower alkyl.

2. A method for production according to claim 1, wherein the compound represented by the general formula (II-A) or the general formula (II-B) is allowed to react with 1.0 to 5.0 equivalents of thionyl chloride in a solvent of toluene, ethyl acetate, cyclohexane, or acetonitrile at 30°C to reflux.

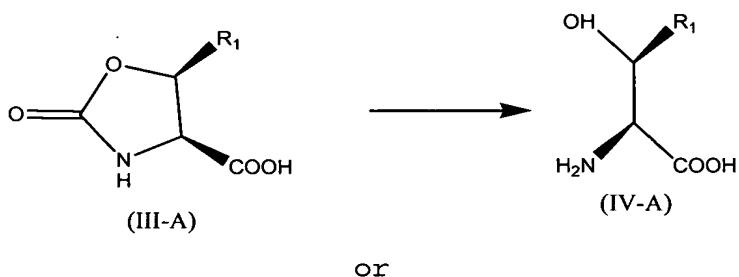
3. A method for production according to claim 1, wherein the compound represented by the general formula (II-A) or the general formula (II-B) is allowed to react with 1.0 to 3.0 equivalents of thionyl chloride in a solvent of toluene, ethyl acetate, cyclohexane, or acetonitrile at 60°C to 80°C.

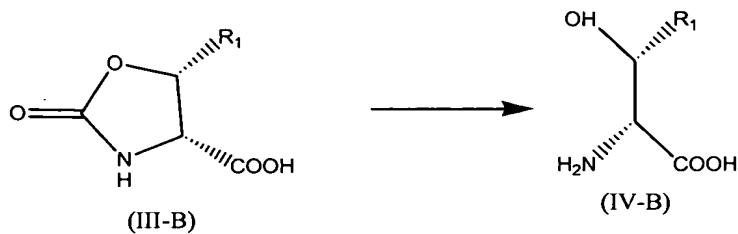
4. A method for production of a compound represented by the general formula (III-A) or the general formula (III-B), comprising the step of subjecting a compound represented by the general formula (I-A) or the general formula (I-B) obtained by a method according to any of claims 1-3 to a hydrolysis as follows:



wherein R¹ and R³ are as described above.

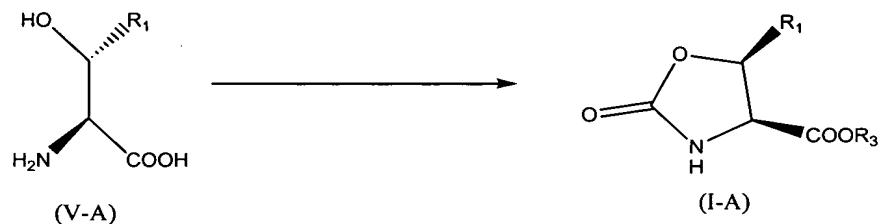
5. A method for production of a compound represented by the general formula (IV-A) or the general formula (IV-B), comprising the step of subjecting a compound represented by the general formula (III-A) or the general formula (III-B) obtained by a method according to claim 4 to a hydrolysis as follows:



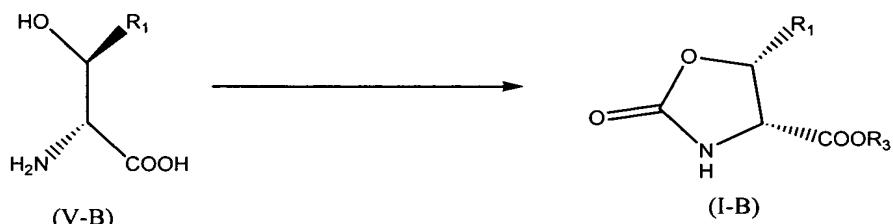


wherein R¹ is as described above.

6. A method for production of a compound represented by the general formula (I-A) or the general formula (I-B), comprising the step of protecting the amino group of a compound represented by the general formula (V-A) or the general formula (V-B) with $R^2OC(=O)-$, wherein R^2 is as described above, esterifying the carboxyl group thereof, and treating with thionyl chloride as follows:

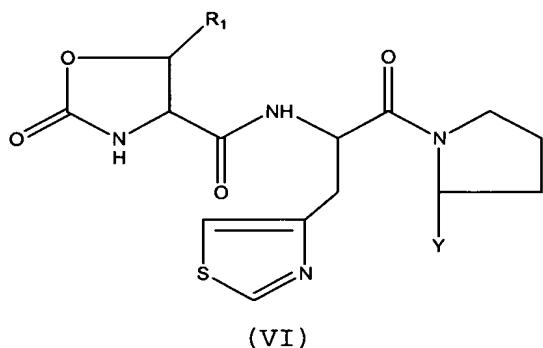


or



wherein R¹ and R³ are as described above.

7. A method for production of a compound represented by the general formula (VI):



wherein R¹ is as described above, and Y is an optionally substituted alkyl, comprising the step of subjecting a compound represented by the general formula (III-A) or the general formula (III-B) obtained by a method according to claim 4 to a peptide bond formation.

8. A method for production according to claim 4, wherein R¹ is phenyl, 5-imidazolyl, methyl, isopropyl, ethynyl, or 1-propynyl.

9. A method for production according to claim 4, wherein R² is a lower alkyl, an aralkyl, or a heteroarylalkyl.

10. A method for production according to claim 4, wherein R² is an aralkyl.

11. A method for production according to claim 4, wherein R¹ is methyl and R² is benzyl.